```
ANSWER 1 OF 12 CAPLUS COPYRIGHT 2001 ACS
ь7
     The title compds. (I) [wherein n = 0-2; m = 1 or 2; X = S or 0; Y = O, S,
AΒ
     SO, or SO2; R1 = H or CO2R3, tetrazolyl, 3-hydroxyoxazolyl,
     3-hydroxyisothiazolyl, 3-hydroxypyrazolyl, 3-hydroxy-1,2,4-oxadiazolyl,
     2-thio-1,3,4-oxadiazolyl, 2-hydroxyoxazolyl, 2-hydroxythiazolyl, etc.; R2
     = H, alkyl, OH, or NR7R8; R3 = H (ar)alkyl, or alkylcarbonyloxy(ar)alkyl;
     R4-R6 = independently H, trihalomethyl, (ar)alkyl, (hetero)aryl, OH, oxo,
     carboxy(alkyl), alkyloxycarbonyl, alkoxy(alkyl), (ar)alkyloxyalkyl, thio,
     alkylthio, (un) substituted amino, acyl, alkylcarbonylamino(alkyl), etc.;
     R7 and R8 = independently H, (ar)alkyl, aryl, (ar)alkylcabonyl,
     arylcarbonyl, or (ar)alkylcarboxy; or R7 and R8 together with the N to
     which they are attached form an (un)substituted mono-, bi-, or tricyclic
     ring system contg. 0-3 heteroatoms; or R7 and R8 = independently a 5-7
     membered amine, imide, or lactam] were prepd. as inhibitors of protein
     tyrosine phosphatases (PTPases), such as PTP1B, CD45, SHP-1, SHP-2,
     PTP.alpha., LAR, and HePTP. For example, 5-(4-benzyloxy-1,3-dioxo-1,3-
     dihydroisoindol-2-ylmethyl)-2-(tert-butoxyoxalylamino)-4,7-dihydro-5H-
     thieno[2,3-c]pyran-3-carboxylic acid tert Bu ester was debenzylated using
     Pd/C in EtOAc (67%) and deesterified using 25% TFA in CH2Cl2 to afford II
     (72%). In a study evaluating for biol. activity against a truncated form
     of PTP1B, II inhibited PTP1B with a Ki of 1.5 .mu.M. I are useful in the
     treatment of type I diabetes, type II diabetes, impaired glucose
     tolerance, insulin resistance, obesity, and other diseases (no data).
     2001:208280 CAPLUS
ΑN
DN
     134:252328
     Preparation of 2-(oxalylamino)-4,7-dihydro-5H-thieno[2,3-c]pyran-3-
     carboxylic acids as protein tyrosine phosphatase inhibitors
     Andersen, Henrik Sune; Hansen, Thomas Kruse; Lau, Jesper; Moller, Niels
IN
     Peter Hundahl; Olsen, Ole Hvilsted; Axe, Frank Urban; Ge, Yu; Holsworth,
     Daniel Dale; Jones, Todd Kevin; Judge, Luke Milburn; Ripka, Wiliam
     Charles; Shapira, Barry Zvi; Uyeda, Roy Teruyuki
PΑ
     Novo Nordisk A/S, Den.; Ontogen Corporation
SO
     PCT Int. Appl., 147 pp.
     CODEN: PIXXD2
DT
     Patent
     English
T.A
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO.
                                                           DATE
                                           ______
                            20010322
                                          WO 2000-DK503
                                                            20000911
PΙ
    WO 2001019831
                     A1
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
             ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI DK 1999-1278
                            19990910
                      Α
    MARPAT 134:252328
OS
     Preparation of 2-(oxalylamino)-4,7-dihydro-5H-thieno[2,3-c]pyran-3-
TΙ
     carboxylic acids as protein tyrosine phosphatase inhibitors
     199113-98-9, 5-[[4-[[3-Methyl-4-oxo-3,4-dihydro-2-
IT
     quinazolinyl]methoxy]phenyl]methyl]thiazolidine-2,4-dione
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (insulin sensitizer; combination therapy comprising insulin
sensitizers
```

and 2-(oxalylamino)-4,7-dihydro-5H-thieno[2,3-c]pyran-3-carboxylic acid

PTP1B inhibitors)
RN 199113-98-9 CAPLUS
CN 2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

RE.CNT 7

RE

- (1) Bristol-Myers Company; GB 1583679 A 1981 CAPLUS
- (2) Iversen, L; The Journal of Biological Chemistry 2000, V275(14), P10300
- (3) Novo Nordisk AS; WO 9946237 A1 1999 CAPLUS
- (4) Novo Nordisk AS; WO 9946267 A1 1999 CAPLUS
- (5) Novo Nordisk AS; WO 9946268 A1 1999 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2001 ACS
- AB The title compds. (I) [wherein n = 0-2; m = 1 or 2; X = S or 0; Y = O, S, SO, or SO2; R1 = H or CO2R3, tetrazolyl, 3-hydroxyoxazolyl, 3-hydroxyisothiazolyl, 3-hydroxypyrazolyl, 3-hydroxy-1,2,4-oxadiazolyl, 2-thio-1,3,4-oxadiazolyl, 2-hydroxyoxazolyl, 2-hydroxythiazolyl, etc.; R2 = H, alkyl, OH, or NR7R8; R3 = H (ar)alkyl, or alkylcarbonyloxy(ar)alkyl; R4-R6 = independently H, trihalomethyl, (ar)alkyl, (hetero)aryl, OH, oxo, carboxy(alkyl), alkyloxycarbonyl, alkoxy(alkyl), (ar)alkyloxyalkyl, thio, alkylthio, (un) substituted amino, acyl, alkylcarbonylamino(alkyl), etc.; R7 and R8 = independently H, (ar)alkyl, aryl, (ar)alkylcabonyl, arylcarbonyl, or (ar)alkylcarboxy; or R7 and R8 together with the N to which they are attached form an (un) substituted mono-, bi-, or tricyclic ring system contg. 0-3 heteroatoms; or R7 and R8 = independently a 5-7 membered amine, imide, or lactam] were prepd. as inhibitors of protein tyrosine phosphatases (PTPases), such as PTP1B, CD45, SHP-1, SHP-2, PTP.alpha., LAR, and HePTP. For example, reaction of 2-bromomethyl-3methoxymethoxybenzoic acid Me ester (prepn. given) with 2-amino-5-aminomethyl-6-(4-methoxybenzyl)-4,5,6,7-tetrahydrothieno[2,3c]pyridine-3-carboxylic acid tert-Bu ester, amidation using imidazol-1-yloxoacetic acid tert-Bu ester, debenzylation using Pd/C and 10% formic acid in MeOH, and deesterification with 30% TFA afforded II.bul.xTFA (90%). In a study evaluating for biol. activity against a truncated form of PTP1B, II inhibited PTP1B with a Ki of 250 nM. I are useful in the treatment of type I diabetes, type II diabetes, impaired glucose tolerance, insulin resistance, obesity, and other diseases (no data).
- AN 2001:208279 CAPLUS
- DN 134:252327
- TI Preparation of 2-(oxalylamino)-4,5,6,7-tetrahydrothieno[2,3-c]pyridine-3-carboxylic acids as protein tyrosine phosphatase inhibitors
- IN Andersen, Henrik Sune; Hansen, Thomas Kruse; Lau, Jesper; Moller, Niels Peter Hundahl; Olsen, Ole Hvilsted; Axe, Frank Urban; Ge, Yu; Holsworth, Daniel Dale; Jones, Todd Kevin; Judge, Luke Milburn; Ripka, Wiliam Charles; Shapira, Barry Zvi; Uyeda, Roy Teruyuki
- PA Novo Nordisk A/S, Den.; Ontogen Corp.
- SO PCT Int. Appl., 150 pp. CODEN: PIXXD2
- DT Patent

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LA
     English
FAN.CNT 1
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APPLICATION NO. KIND DATE PATENT NO. \_\_\_\_\_\_ WO 2000-DK502 20000911 A1 20010322 WO 2001019830 PI W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG 19990910 PRAI DK 1999-1277 A DK 2000-1069 20000707

os MARPAT 134:252327

Preparation of 2-(oxalylamino)-4,5,6,7-tetrahydrothieno[2,3-c]pyridine-3-TIcarboxylic acids as protein tyrosine phosphatase inhibitors

IT 199113-98-9

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (insulin sensitizer; combination therapy comprising insulin sensitizers

and 2-(oxalylamino)-4,5,6,7-tetrahydrothieno[2,3-c]pyridine-3carboxylic acid PTP1B inhibitors)

199113-98-9 CAPLUS RN

2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-CN quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$CH_2-O$$
 $CH_2$ 
 $CH_2$ 
 $O$ 
 $N$ 
 $Me$ 

RE.CNT 7

RE

(1) Bristol-Myers Company; GB 1583679 A 1981 CAPLUS

- (2) Iversen, L; THE JOURNAL OF BIOLOGICAL CHEMISTRY 2000, V275(14), P10300
- (3) Novo Nordisk AS; WO 9946237 A1 1999 CAPLUS
- (4) Novo Nordisk AS; WO 9946267 A1 1999 CAPLUS
- (5) Novo Nordisk AS; WO 9946268 A1 1999 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2001 ACS
- The present invention provides a method of inhibiting protein tyrosine AB phosphatases (PTPases, PTPs), such as PTP1B, TC-PTP, CD45, SHP-1, PTP.alpha., PTP.epsilon., PTP.beta., PTP D1, PTP D2, PTPH1, and PTP-LAR, by administration of compds. which have structural, phys., and spatial characteristics that allow them to interact with an aspartic acid residue at position 48 of PTP1B and/or TC-PTP. Prepns. for over 100 thieno[2,3-c]pyrans and thieno[2,3-c]pyridines (I) [wherein n = 0-2; m = 00-2; and m = n .gtoreq. 1; X = S, O, NR8; Y = NR8, O, S, SO, SO2; R1 = H, CO2R3, or a 5-membered heterocycle such as tetrazolyl,

3-hydroxyisoxazolyl, 3-hydroxyisothiazolyl, 3-hydroxypyrazolyl,

2-(hydroxy

or thio)-1,3,4-oxadiazolyl, 2-oxoimidazolyl, etc.; R2 = H, alkyl, OH, or NR9R10; R3 = H, (ar)alkyl, or alkylcarbonyloxy(ar)alkyl; R4 - R6 = independently H, trihalomethyl, (ar)alkyl, aryl, OH, oxo, CO2H, carboxyalkyl, (ar)alkyloxycarbonyl, alkylaminoalkyl,

(ar)alkylcarbonylamino, etc.; R8 - R10 = independently H or (un) substituted (ar) alkyl, aryl, (ar) alkylcarbonyl, arylcarbonyl, or (ar)alkylcarboxy; or R9 and R10 together with the N to which they are attached form an (un) substituted cyclic, bicyclic, or tricyclic ring system contq. 0-3 heteroatoms; or R9 and R10 = independently a 5-7 membered cyclic amine, imide, or lactam] and structural-based PTPase inhibition data are included. For example, 5-(4-benzyloxy-1,3-dioxo-1,3dihydroisoindol-2-ylmethyl)-2-(tert-butoxyoxalylamino)-4,7-dihydro-5Hthieno[2,3-c]pyran-3-carboxylic acid tert-Bu ester was debenzylated using Pd/C and treated with 25% TFA in CH2Cl2 to give II. II showed potency against PTP1B, PTP.alpha. D1, PTP.epsilon. D1, PTP.beta., and CD45 D1D2 with Ki values (.mu.M) of 1.9, 93, 11, 1.1, and 130, resp. I are indicated in the management or treatment of a broad range of diseases such as autoimmune diseases, acute and chronic inflammation, osteoporosis, various forms of cancer and malignant diseases, and type I diabetes and type II diabetes (no data). In addn., I are useful in the isolation of PTPases and in elucidation of their biol. function. 2001:185561 CAPLUS 134:237465 Method of inhibiting protein tyrosine phosphatases with an aspartic acid residue at position 48 Andersen, Henrik Sune; Hansen, Thomas Kruse; Iverson, Lars Fogh; Lau, Jesper; Moller, Niels Peter Hundahl; Olsen, Ole Hvilsted; Axe, Frank Urban; Ge, Yu; Holsworth, Daniel Dale; Jones, Todd Kevin; Judge, Luke Milburn; Ripka, William Charles; Shapira, Barry Zvi; Uyeda, Roy Teruyuki Novo Nordisk A/S, Den.; Ontogen Corp. PCT Int. Appl., 644 pp. CODEN: PIXXD2 Patent English FAN.CNT 1 KIND APPLICATION NO. DATE PATENT NO. DATE \_\_\_\_\_\_ WO 2000-US24761 20000911 A2 20010315 WO 2001017516 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG Α 19990910

PΙ PRAI DK 1999-1279 US 1999-156641 Ρ 19990929

Method of inhibiting protein tyrosine phosphatases with an aspartic acid TI residue at position 48

IT 199113-98-9, 5-[[4-[[3-Methyl-4-oxo-3,4-dihydro-2quinazolinyl]methoxy]phenyl]methyl]thiazolidine-2,4-dione RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (insulin sensitizer; compns. contg. insulin sensitizers and selective inhibitors of protein tyrosine phosphatases) RN 199113-98-9 CAPLUS

2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

ΑN

DN

TI

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PΑ

SO

DT

LA

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\begin{array}{c|c} & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &
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L7 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2001 ACS The present invention provides a new stable pharmaceutical compn. contg. AB 5-[[4-[ 3-Methyl-4- oxo-3,4- dihydro-2- quinazolinyl] methoxy]phenyl -methyl] thiadiazolidine -2,4-dione (I) as active ingredient for the treatment of type-2 diabetes. A tablet contained I potassium salt 9, microcryst. cellulose 20, lactose 66, magnesium stearate 0.5, and talc 4.5%. 2000:383924 CAPLUS ΑN 133:34424 DN New pharmaceutical composition containing thiadiazolidine derivatives for ΤI the treatment of type-2 diabetes Weibel, Helle; Hjorth, Thyge Borup IN Novo Nordisk A/S, Den.; Reddy's Research Foundation PAPCT Int. Appl., 20 pp. SO CODEN: PIXXD2 DT Patent LΑ English FAN.CNT 1 APPLICATION NO. DATE PATENT NO. KIND DATE 20000608 WO 1999-DK663 19991129 Α1 ΡI WO 2000032191 AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG PRAI DK 1998-1580 Α 19981201 New pharmaceutical composition containing thiadiazolidine derivatives for the treatment of type-2 diabetes 199113-98-9 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (new pharmaceutical compn. contg. thiadiazolidine derivs. for treatment of type-2 diabetes) 199113-98-9 CAPLUS RN 2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

RE.CNT 2

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ŘΕ
(1) Boehringer Ingelheim Pharma Kg; EP 0945134 A1 1999 CAPLUS
(2) The Procter & Gamble Company; WO 9217161 A1 1992 CAPLUS
     ANSWER 5 OF 12 CAPLUS COPYRIGHT 2001 ACS
L7
     The title compd. 5-{4-[(3-methyl-4-oxo-3,4-dihydroquinazolin-2-
AB
     yl)methoxy]benzyl}thiazolidine-2,4-dione (I), useful as antidiabetic
agent
     (no data), was prepd. by reducing the compd. II (R = alkyl) over Raney Ni
     or Mg in C1-4 alc. or mixts. thereof, if desired reesterifying using
H2SO4
     at a temp. 0-60.degree., hydrolyzing the resulting compd. III, and
     condensing the acid IV with N-Me anthranilamide directly without any
     preactivation, and if desired, converting the compd. I to
pharmaceutically
     acceptable salts thereof by conventional methods.
AN
     2000:191085 CAPLUS
DN
     132:222546
    An improved process for the preparation of thiazolidine-2,4-dione
TI
     derivatives
     Chebiyyam, Prabhakar; Potlapally, Rajender Kumar; Gade, Chinna Bakki
IN
     Reddy; Satish, Balaram Mahanti; Mamillapalli, Ramabhadra Sarma; Gaddam,
Om
     Reddy
PΑ
     Reddy's Research Foundation, India
     PCT Int. Appl., 49 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
ĽΑ
FAN.CNT 1
                                           APPLICATION NO.
     PATENT NO.
                      KIND
                            DATE
                            20000323
                                           WO 1999-IB1530
                                                            19990910
     WO 2000015638
                      A1
PI
             AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
             JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
             TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
             MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
             ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
             CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                           AU 1999-54399
                                                            19990910
                            20000403
     AU 9954399
                       A1
PRAI IN 1998-MA20
                       0
                            19980914
     WO 1999-IB1530
                       W
                            19990910
     CASREACT 132:222546; MARPAT 132:222546
OS
    An improved process for the preparation of thiazolidine-2,4-dione
ΤI
     derivatives
ΙT
     199113-98-9P
     RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
     preparation); PREP (Preparation)
        (an improved process for the prepn. of thiazolidine-2,4-dione derivs.)
RN
     199113-98-9 CAPLUS
     2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-
CN
     quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)
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$$\begin{array}{c|c}
 & CH_2 - O \\
 & N \\
 & N \\
 & Me
\end{array}$$

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RE
(1) Beecham Group Plc; EP 0306228 A 1989 CAPLUS
(2) Reddy S Research Foundation; WO 9741097 A 1997 CAPLUS
(3) Robertson, D; JOURNAL OF ORGANIC CHEMISTRY 1956, V21, P1190 CAPLUS
(4) Sankyo Co; EP 0454501 A 1991 CAPLUS
(5) Ss Pharmaceutical Co; EP 0787727 A 1997 CAPLUS
     ANSWER 6 OF 12 USPATFULL
T.7
       The present invention relates to novel antidiabetic compounds, their
AΒ
       tautomeric forms, their derivatives, their stereoisomers, their
       polymorphs, their pharmaceutically acceptable salts, their
       pharmaceutically acceptable solvates and pharmaceutically acceptable
       compositions containing them. This invention particularly relates to
       novel azolidinedione derivatives of the general formula (I), and their
       pharmaceutically acceptable salts, pharmaceutically acceptable solvates
       and pharmaceutical compositions containing them ##STR1##
ΑN
       2000:117907 USPATFULL
ΤI
       Heterocyclic compounds, process for their preparation and
pharmaceutical
       compositions containing them and their use in the treatment of diabetes
       and related diseases
IN
       Lohray, Vidya Bhushan, Hyderabad, India
       Lohray, Braj Bhushan, Hyderabad, India
       Paraselli, Rao Bheema, Hyderabad, India
       Gurram, Ranga Madhavan, Hyderabad, India
       Ramanujam, Rajagopalan, Hyderabad, India
       Chakrabarti, Ranjan, Hyderabad, India
       Pakala, Sarma K.S., Hyderabad, India
PA
       Dr. Reddy's Research Foundation, Hyderabad, India (non-U.S.
corporation)
       Reddy-Cheminor Inc., Ridgewood, NJ, United States (U.S. corporation)
ΡI
       US 6114526 20000905
       US 1999-353286 19990714 (9)
ΑI
       Continuation of Ser. No. US 1996-777627, filed on 31 Dec 1996, now
RLI
       patented, Pat. No. US 5885997 76 Ser. No. US 1997-884816, filed on 30
       Jun 1997
       IN 1996-115096
                           19960701
PRAI
DT
       Utility
       Primary Examiner: Dees, Jose' G.; Assistant Examiner: Qazi, Sabiha N.
EXNAM
LREP
       Ladas & Parry
CLMN
       Number of Claims: 5
       Exemplary Claim: 1
ECL
       No Drawings
DRWN
LN.CNT 2583
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       Heterocyclic compounds, process for their preparation and
pharmaceutical
       compositions containing them and their use in the treatment of diabetes
       and related diseases
    199113-98-9P
IΤ
        (prepn. of thiazolidinediones and analogs as antidiabetics)
RN
     199113-98-9 USPATFULL
```

2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-meth

quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

RE.CNT 5

CN

L7 ANSWER 7 OF 12 USPATFULL

The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their analogues, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinediones of the general formula (I), their analogues, their derivatives, their tautomeric forms, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them. ##STR1##

AN 2000:24647 USPATFULL

TI Heterocyclic compounds having antidiabetic hypolipidemia and antihypertensive properties, process for their preparation and pharmaceutical compositions containing them

IN Lohray, Vidya Bhushan, Jubilee Hills, India Lohray, Braj Bhushan, Jubilee Hills, India Paraselli, Rao Bheema, Hyderabad, India Ramanujam, Rajagopalan, Hyderabad, India Chakrabarti, Ranjan, Hyderabad, India

PA Dr. Reddy's Research Foundation, Hyderabad, India (non-U.S. corporation)

Reddy-Cheminor, Inc., Ridgewood, NJ, United States (U.S. corporation)

PI US 6030973 20000229

AI US 1998-135566 19980817 (9)

RLI Division of Ser. No. US 1997-982911, filed on 2 Dec 1997, now abandoned

PRAI IN 1997-77197 19970415

DT Utility

EXNAM Primary Examiner: Shah, Mukund J.; Assistant Examiner: Kessinger, Ann M.

LREP Ladas & Parry

CLMN Number of Claims: 22 ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1783

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

TI Heterocyclic compounds having antidiabetic hypolipidemia and antihypertensive properties, process for their preparation and pharmaceutical compositions containing them

IT 199113-98-9

(prepn. and pharmacol. activity of benzoquinazolinonyl- and benzoxazinonylmethoxybenzylthiazolidinediones)

RN 199113-98-9 USPATFULL

CN 2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

L7 ANSWER 8 OF 12 USPATFULL

The present invention relates to novel antidiabetic compounds, their tautomeric forms, their analogues, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinedione compounds of the general formula (I),

and their analogues, their derivatives, their tautomeric forms, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them. ##STR1##

AN 2000:1879 USPATFULL

TI Heterocyclic compounds having antidiabetic hypolipidemic antihypertensive properties process for their preparation and pharmaceutical compositions containing them

IN Lohray, Vidya Bhushan, Hyderabad, India Lohray, Braj Bhushan, Hyderabad, India Gurram, Ranga Madhavan, Hyderabad, India Ramanujam, Rajagopalan, Hyderabad, India Chakrabarti, Ranjan, Hyderabad, India

PA Dr. Reddy's Research Foundation, Hyderabad, India (non-U.S. corporation)

Reddy-Cheminor, Inc., Ridgewood, NJ, United States (U.S. corporation)

PI US 6011036 20000104

AI US 1997-982962 19971202 (8) PRAI IN 1997-77197 19970415

DT Utility

EXNAM Primary Examiner: Shah, Mukund J.; Assistant Examiner: Kessinger, Ann M.

LREP Ladas & Parry

CLMN Number of Claims: 19 ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1622

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

TI Heterocyclic compounds having antidiabetic hypolipidemic antihypertensive properties process for their preparation and pharmaceutical compositions containing them

IT 199113-98-9

(prepn. and pharmacol. activity of benzoquinazolinonyl- and benzoxazinonylmethoxybenzylthiazolidinediones)

RN 199113-98-9 USPATFULL

CN 2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
 & CH_2 & CH_2 & N \\
 & N & N & N \\
 & N &$$

L7 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 1 AB The title compds. [I; one of X, Y, Z = C(O), C(S) and one of the remaining

of X, Y, Z = C and the other C:C; R1-R3 = H, halo, OH, etc.; n = 1-4; Ar -

(un) substituted divalent aryl, heteroaryl; R4 = H, halo, alkyl or forms a bond together with the adjacent group A; A = N, CR5 (wherein R5 = H, halo,

alkyl or R5 forms a bond together with R4); B = O, S when A = CR5 and B = O when A = N], novel antidiabetic compds., were prepd. and formulated. Thus, reacting 4-[2-(2-ethyl-4-methyl-6-oxo-1,6-dihydro-1-

pyrimidinyl)ethoxy]benzaldehyde (prepn. given) with

thiazolidine-2, 4-dione

afforded II which showed 67% max. redn. in blood glucose level at 100 mg/kg/day (6 days treatment) in mice.

AN 1999:733038 CAPLUS

DN 131:351343

- TI Preparation of heterocyclic compounds for the treatment of diabetes and related diseases
- IN Lohray, Vidya Bhushan; Lohray, Braj Bhushan; Paraselli, Rao Bheema; Gurram, Ranga Madhavan; Ramanujam, Rajagopalan; Chakrabarti, Ranjan; Pakala, Sarma K. S.
- PA Reddy's Research Foundation, India; Reddy-Cheminor Inc.
- SO U.S., 35 pp., Cont.-in-part of U.S. 5,885,997. CODEN: USXXAM

DT Patent

LA English

FAN. CNT 3

TAM.CMI 3				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5985884	A	19991116	US 1997-884816	19970630
US 5885997	Α	19990323	US 1996-777627	19961231
US 6114526	Α	20000905	US 1999-353286	19990714
PRAI IN 1996-MA1150	A	19960701		
US 1996-777627	A2	19961231		
US 1997-884816	A	19970630		
00 100000 101 051040				

OS MARPAT 131:351343

TI Preparation of heterocyclic compounds for the treatment of diabetes and related diseases

## IT 199113-98-9P

RL: BAC (Biological activity or effector, except adverse); RCT
(Reactant);

SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of heterocyclic compds. for the treatment of diabetes and related diseases)

RN 199113-98-9 CAPLUS

CN 2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
 & CH_2 & CH_2 & CH_2 & N \\
 & N & Me & O & Me
\end{array}$$

RE.CNT 84

RE

- (1) Ainsworth; US 5153210 1992 CAPLUS
- (2) Anon; JP 09-12575 A CAPLUS
- (3) Anon; AU 570067 CAPLUS
- (5) Anon; 1980 CAPLUS
- (7) Anon; EP 0139421 1985 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 2

AB The present invention relates to novel antidiabetic compds., their tautomeric forms, their derivs., their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable

solvates and pharmaceutically acceptable compns. contg. them. This invention particularly relates to novel azolidinedione derivs., and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compns. contg. them. Approx. 30 title compds. such as I (R = Pr, Me, Et, Bu, benzyl) and their quinazoline analogs were prepd. in 66-99% yields, e.g., by condensation of aldehydes II with thiazolidine-2,4-dione. Antidiabetic data was given for several of the

```
prepd. compds. At 30 mg/kg/day, after 6 days,
5-[4-[2-[2-ethyl-4-methyl-6-
     oxo-1,5-dihydro-1-pyrimidinyl]ethoxy]phenylmethyl] thiazolidine-2,4-dione
     reduced the blood glucose level 73%, lowered triglycerides 70% and also
     lowered cholesterol in the rat.
ΑN
     1999:212642 CAPLUS
DN
     130:223293
TΙ
     Heterocyclic compounds, process for their preparation and pharmaceutical
     compositions containing them and their use in the treatment of diabetes
     and related diseases
ΙN
     Lohray, Vidya Bhushan; Lohray, Braj Bhushan; Paraselli, Rao Bheema
PΑ
     Reddy's Research Foundation, India; Reddy-Cheminor, Inc.
SO
     U.S., 26 pp.
     CODEN: USXXAM
DT
     Patent
LA
     English
FAN.CNT 3
     PATENT NO.
                      KIND
                            DATE
                                           APPLICATION NO.
                                                            DATE
                      ____
ΡI
     US 5885997
                            19990323
                       Α
                                           US 1996-777627
                                                             19961231
                                           CA 1997-2258949 19970630
     CA 2258949
                       AΑ
                            19971106
     WO 9741097
                       Α2
                            19971106
                                           WO 1997-US11522 19970630
            AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
             LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ,
             VN, YU, ZW
         RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
             GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
             GN, ML, MR, NE, SN, TD, TG
                                           AU 1997-37198
     AU 9737198
                       A1
                            19971119
                                                             19970630
     US 5985884
                       Α
                            19991116
                                           US 1997-884816
                                                             19970630
     EP 958296
                       A1
                            19991124
                                           EP 1997-934041
                                                             19970630
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI
     BR 9711098
                      Α
                            20000308
                                         BR 1997-11098
                                                            19970630
     CN 1275982
                       Α
                            20001206 -
                                           CN 1997-195778
                                                            19970630
     NO 9806055
                            19981222
                                           NO 1998-6055
                       Α
                                                            19981222
     US 6114526
                       Α
                            20000905
                                           US 1999-353286
                                                            19990714
PRAI IN 1996-MA1150
                       Α
                            19960701
     US 1996-777627
                       Α
                            19961231
     US 1997-884816
                            19970630
                       Α
     WO 1997-US11522
                       W
                            19970630
OS
     MARPAT 130:223293
TΙ
     Heterocyclic compounds, process for their preparation and pharmaceutical
     compositions containing them and their use in the treatment of diabetes
     and related diseases
ΙT
     199113-98-9P
     RL: BAC (Biological activity or effector, except adverse); RCT
(Reactant);
     SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
        (prepn. of pyrimidinylethoxybenzylthiazolidinediones)
     199113-98-9 CAPLUS
RN
CN
     2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-
     quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)
```

 $_{N}$   $_{CH_2-O}$   $_{N}$   $_{CH_2-O}$   $_{N}$ 

```
RE.CNT 57
RE
(1) Anon; EP 008203 A 1980 CAPLUS
(2) Anon; EP 155845 A 1985 CAPLUS
(4) Anon; AU 570067 1985 CAPLUS
(6) Anon; EP 0207581 1987 CAPLUS
(7) Anon; EP 0236624 1987 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 11 OF 12 CAPLUS COPYRIGHT 2001 ACS
L7
     Title compds. such as I (R = H, Me, Et; X = O, NR1; R1 = H, Me, Et) were
AΒ
     prepd. in 23-82% yields by cyclization of o-HXC6H4CONH2 with acetals such
ΑN
     1998:682388 CAPLUS
DN
     129:290130
     Substituted thiazolidinediones having antidiabetic, hypolipidemia and
TT
     antihypertensive properties
     Lohray, Vidya Bhushan; Lohray, Braj Bhushan; Paraselli, Rao Bheema;
IN
     Ramanujam, Rajagopalan; Chakrabarti, Ranjan
     Reddy's Research Foundation, India; Reddy-Cheminor Inc.
PA
     PCT Int. Appl., 75 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LΆ
     English
FAN.CNT 2
                                            APPLICATION NO.
                                                             DATE
                      KIND
                            DATE
     PATENT NO.
                             19981015
                                           WO 1998-US7284
                                                             19980410
                       A1
PΙ
     WO 9845291
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
             UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, ML, MR, NE, SN, TD, TG
                                           AU 1998-71097
                                                             19980410
                            19981030
     AU 9871097
                       Α1
                                           EP 1998-918108
                                                             19980410
                             20000920
     EP 1036075
                       A1
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                                            US 1998-135566
                                                             19980817
     US 6030973
                       Α
                             20000229
PRAI US 1997-982911
                       Α
                             19971202
                             19970415
     IN 1997-MA771
                       Α
                             19980410
     WO 1998-US7284
                       W
     MARPAT 129:290130
os
     Substituted thiazolidinediones having antidiabetic, hypolipidemia and
ΤI
     antihypertensive properties
IT
     199113-98-9
     RL: RCT (Reactant)
        (prepn. and pharmacol. activity of benzoquinazolinonyl- and
        benzoxazinonylmethoxybenzylthiazolidinediones)
RN
     199113-98-9 CAPLUS
     2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-
CN
     quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)
```

$$\begin{array}{c|c} & & & \\ &$$

```
ANSWER 12 OF 12 CAPLUS COPYRIGHT 2001 ACS
L7
     Title compds. [I; A = N, CR5; B = O or S; R = CHR4ZO(CH2)nR1; R1 = CHR4ZO(CH2)nR1
AΒ
     (un)substituted pyrimidinyl, -quinazolinyl, etc.; R4,R5 = H, halo, alkyl;
     R4R5 = bond; Z = divalent arom. or heterocyclic group; n = 1-4] were
     prepd. Thus, 4-methyl-2-propyl-1,6-dihydro-6-pyrimidinone was
N-alkylated
     by 4-(BrCH2CH2O)C6H4CHO and the product condensed with
     thiazolidine-2,4-dione to give, after hydrogenation, title compd. II.
     Data for biol. activity of I were given.
ΑN
     1997:740205 CAPLUS
DN
     128:13282
ΤI
     Preparation of thiazolidinediones and analogs as antidiabetics
IN
     Lohray, Vidya Bhushan; Lohray, Braj Bhushan; Paraselli, Rao Bheema;
     Gurram, Ranga Madhavan; Ramanujam, Rajagopalan; Chakrabarti, Ranjan;
     Pakala, Sarma K. S.
PΑ
     Dr. Reddy's Research Foundation, India; Reddy-Cheminor, Inc.
SO
     PCT Int. Appl., 112 pp.
     CODEN: PIXXD2
DΤ
     Patent
LΑ
     English
FAN.CNT 3
     PATENT NO.
                      KIND DATE
                                            APPLICATION NO.
                      ____
                            _____
PΙ
     WO 9741097
                      A2
                            19971106
                                           WO 1997-US11522 19970630
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
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             LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ,
             VN, YU, ZW
         RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
             GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
             GN, ML, MR, NE, SN, TD, TG
     US 5885997
                            19990323
                                            US 1996-777627
                       Α
                                                             19961231
     AU 9737198
                       A1
                            19971119
                                           AU 1997-37198
                                                             19970630
     EP 958296
                            19991124
                       Α1
                                           EP 1997-934041
                                                             19970630
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI
     BR 9711098
                       Α
                            20000308
                                           BR 1997-11098
                                                             19970630
     NO 9806055
                       Α
                            19981222
                                           NO 1998-6055
                                                             19981222
PRAI US 1996-777627
                            19961231
                       Α
     IN 1996-MA1150
                            19960701
                       Α
     WO 1997-US11522
                       W
                            19970630
OS
     MARPAT 128:13282
ΤI
     Preparation of thiazolidinediones and analogs as antidiabetics
IT
     199113-98-9P
     RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (prepn. of thiazolidinediones and analogs as antidiabetics)
RN
     199113-98-9 CAPLUS
CN
     2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-3-methyl-4-oxo-2-
     quinazolinyl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)
```

$$CH_2-O$$
 $CH_2$ 
 $CH_2$ 
 $O$ 
 $Me$